MANITOBA PHYSICS 40S · UNIT C · 10 QUESTIONS

Electricity — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A current of 5 amperes flows through a resistor of 6 ohms. The power dissipated, in watts, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A device uses 80 watts for 2 seconds. The energy used, in joules, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A transformer has a primary voltage of 48 volts and a secondary to primary turns ratio of 5 to 1. The secondary voltage, in volts, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A coil of 40 turns has its magnetic flux change by 2 webers in 4 seconds. The induced voltage, in volts, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A current of 5 amperes flows through a resistor of 4 ohms. The voltage, in volts, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **In a parallel circuit, the voltage across each branch is**

A divided equally

B zero

C greatest in the first branch

D the same

Understand It with Pulse | Flag a mistake

7 Adding a resistor in series

- A increases the total resistance
- B decreases the total resistance
- C does not change it
- D shorts the circuit

Understand It with Pulse | Flag a mistake

8 Adding a resistor in parallel

- A increases the total resistance
- B decreases the total resistance
- C does not change it
- D stops the current

Understand It with Pulse | Flag a mistake

9 **Conventional current is taken to flow from**

A negative to positive

B north to south

C positive to negative

D ground to live

Understand It with Pulse | Flag a mistake

10 **Electrons in a metal wire actually flow from**

A positive to negative

B north to south

C live to ground

D negative to positive

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	150	**5.**	20	**9.**	C
2.	160	**6.**	D	**10.**	D
3.	240	**7.**	A		
4.	20	**8.**	B		

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